

ABSTRACT

A powder metal cladding nozzle which is coaxially attached to a laser processing head that irradiates a process portion (W) with a laser beam (L) and that discharges powder metal (P) to a laser beam irradiation portion in the process portion (W). The powder metal cladding nozzle includes a body portion (2) that has a ring-shaped powder metal holding space (7) in which the powder metal (P) is held; and a nozzle portion (3) that is connected to the body portion (2) and that has plural discharge passages (18) which are communicated with the powder metal holding space (7) and which open at an outlet (19) for discharging the powder metal (P). The powder metal holding space (7) is formed in the body portion (2) and is divided into plural powder metal holding regions corresponding to plural supply passages (10) that open into the powder metal holding space (7) and that supply the powder metal (P) to the powder metal holding space (7).

15 Selected drawing: FIG. 1